aiwa

COMPACT DISC STEREO SYSTEM

XR-M56
XR-M57

OPERATING INSTRUCTIONS

En (English)

8Z-CL6-905-01
981218AWW-X6

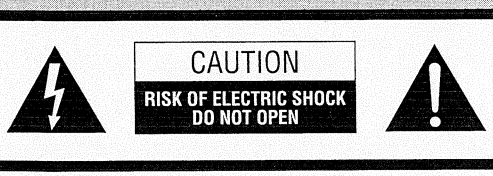
EZ

R·D·S EON

COMPACT disc DIGITAL AUDIO

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



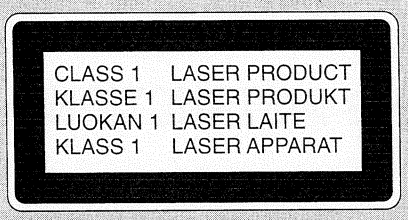
CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

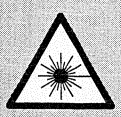
CAUTION

Use or controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This compact disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the exterior.



CAUTION!



Invisible laser radiation when open and inter locks defeated. Avoid exposure to beam.

ADVARSEL!

Usynlig laserstå ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laitteen käyttäminen muulla kuin tässä käyttöohjeessaa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsätta för osnylig laser-strålning, som överskrider gränsen för laserklass 1.

NOTA

AIWA CO. LTD. - JAPAN - DECLARES UNDER ITS OWN RESPONSIBILITY THAT THE PRODUCT DESCRIBED IN THIS MANUAL IS IN COMPLIANCE WITH THE DIRECTIVES OF D.M. 28.8.95 NO. 548, ACCORDING TO THE STIPULATIONS OF PARAGRAPH 3 OF ATTACHMENT A OF D.M. 25.6.85 AND PARAGRAPH 3 OF ATTACHMENT 1 OF D.M. 27.8.87 (REGULATIONS REGARDING FREQUENCIES).

The above information is only for Italy.

PRECAUTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

1 **Water and moisture** — Do not use this unit near water, such as near a bathtub, washbowl, swimming pool, or the like.
2 **Heat** — Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
3 **Mounting surface** — Place the unit on a flat, even surface.
4 **Ventilation** — The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm (4 in.) clearance from the rear and the top of the unit, and 5 cm (2 in.) from the each side.
- Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
- Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.

5 **Objects and liquid entry** — Take care that objects or liquids do not get inside the unit through the ventilation openings.
6 **Carts and stands** — When placed or mounted on a stand or cart, the unit should be moved with care.
Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall.
7 **Condensation** — Moisture may form on the CD pickup lens when:
- The unit is moved from a cold spot to a warm spot
- The heating system has just been turned on
- The unit is used in a very humid room
- The unit is cooled by an air conditioner

When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.
8 **Wall or ceiling mounting** — The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

Electric Power

1 **Power sources** — Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit.
2 **AC power cord**
- When disconnecting the AC power cord, pull out by the AC power plug. Do not pull the cord itself.
- Never handle the AC power plug with wet hands, as this could result in fire or shock.
- Power cord should be routed to avoid being severely bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
- Avoid overloading AC power plugs and extension cords beyond their capacity, as this could result in fire or shock.

3 **When not in use** — Unplug the AC power plug from the power socket if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit,even when the power is turned off.

Maintenance

Clean the unit only as recommended in the Operating Instructions.

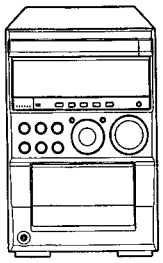
Damage Requiring Service

Have the units serviced by a qualified service technician if:

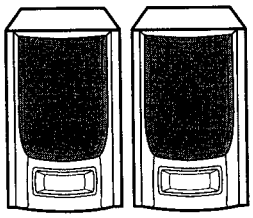
- The AC power cord or plug has been damaged
- Foreign objects or liquid have got inside the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

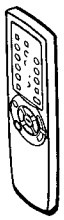
Check your system and accessories



XR-M56/XR-M57 Compact disc stereo cassette receiver

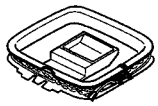


Speakers (L, R)



Remote control

FM antenna



MW/LW antenna

Operating Instructions, etc.

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En

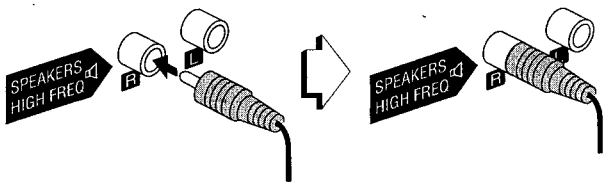
CONNECTIONS

Before connecting the AC cord
The rated voltage of your unit shown on the rear panel is 230 V AC. Check that the rated voltage matches your local voltage.

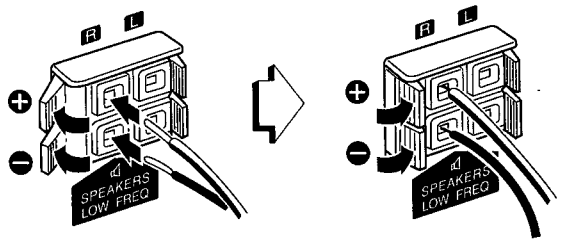
IMPORTANT
- Connect the speakers, antennas, and all optional equipment first. Then connect the AC cord.
- There are no differences between the front speakers. Both speakers can be connected as L (Left) or R (Right)

1 Connect the right speaker to the main unit.

① Connect the speaker cord with the plug to the **SPEAKERS HIGH FREQ R** terminal.



② Connect the speaker cord with the white stripe to the **SPEAKERS LOW FREQ R** ⊕ terminal and the black cord to the ⊖ terminal.

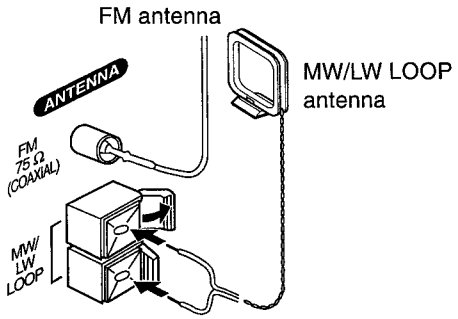


2 Connect the left speaker to the main unit.

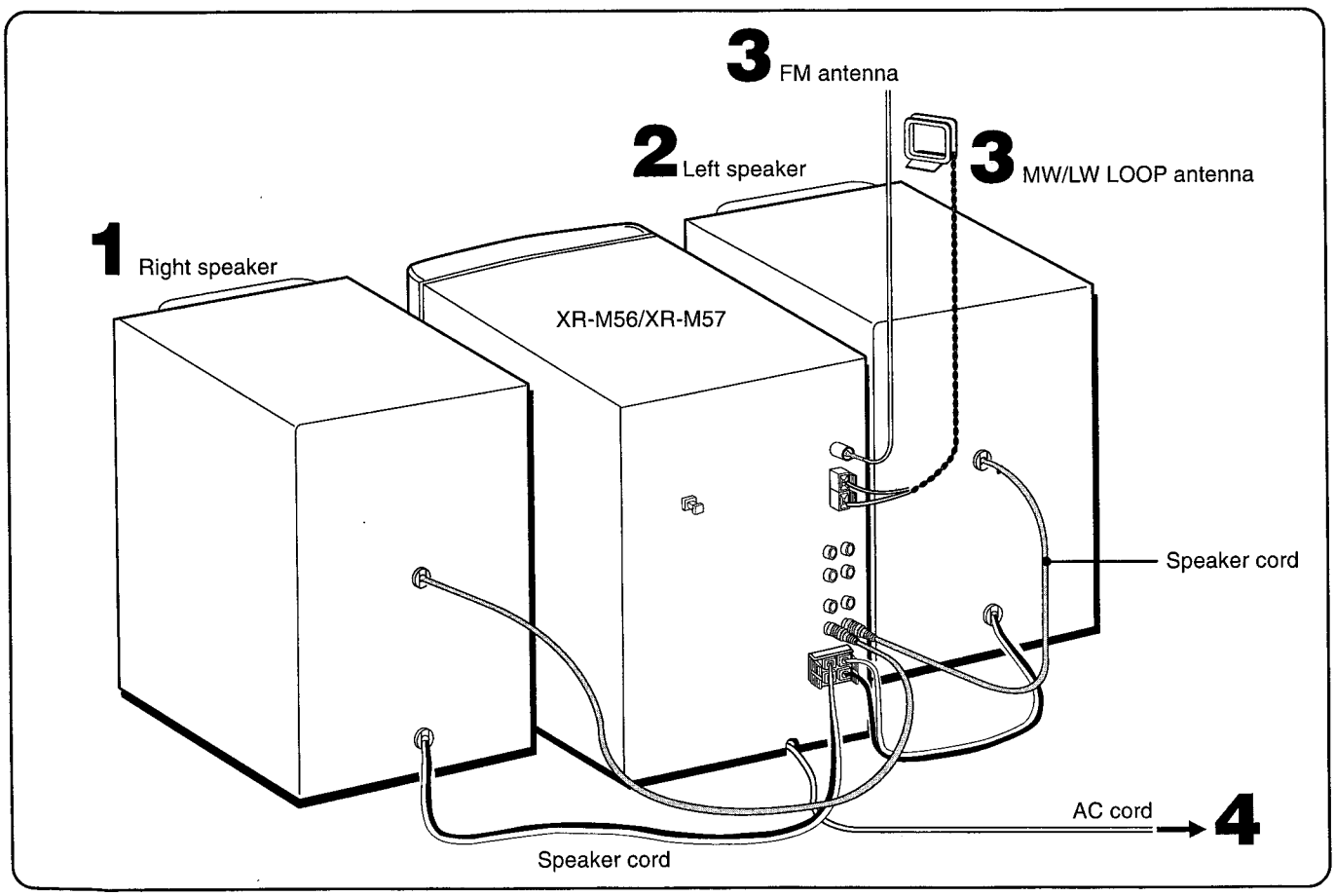
Connect the speaker cord with plug to the **SPEAKERS HIGH FREQ L** terminal, and another speaker cord to the **SPEAKERS LOW FREQ L** terminals in the same manner as step 1.

3 Connect the supplied antennas.

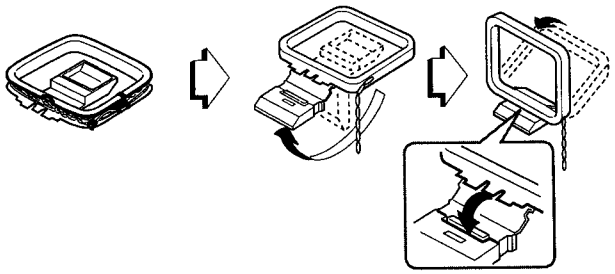
Connect the FM antenna to **FM 75 Ω** terminals and the MW/LW antenna to **MW/LW LOOP** terminals.



4 Connect the AC cord to an AC outlet.



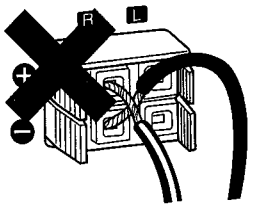
To stand the MW/LW loop antenna on a surface
Fix the claw to the slot.



To position the antennas
FM unipolar antenna:
Extend fully and position for the best possible reception.
This antenna is of an instant type, so the use of an outdoor antenna is recommended.
MW/LW loop antenna:
Position for the best reception.

NOTE

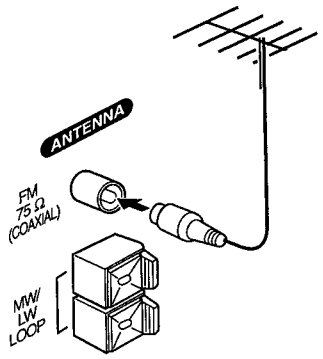
- Be sure to connect the speaker cords correctly. Improper connections can cause short circuits in **SPEAKERS** terminals.



- Do not leave objects generating magnetism, such as credit cards, near the speakers, as these objects may be damaged.
- Do not bring the FM antenna near metal objects or curtain rails.
- Do not bring the MW/LW antenna near other optional equipment, the stereo system itself, the AC cord or speaker cords, since noise will be picked up.
- Do not unwind the MW/LW antenna wire.

CONNECTING AN OUTDOOR ANTENNA

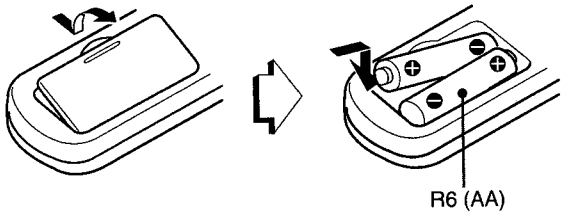
For better FM reception, use of an outdoor antenna is recommended.
Connect the outdoor antenna to **FM 75 Ω** terminals.



To connect other optional equipment → page 19

REMOTE CONTROL

Inserting batteries
Detach the battery cover on the rear of the remote control and insert two R6 (size AA) batteries.

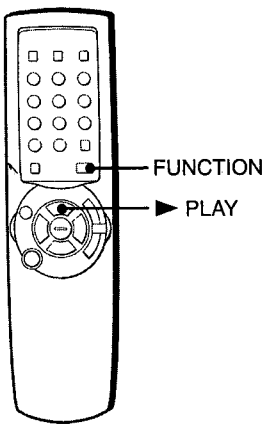


When to replace the batteries
The maximum operational distance between the remote control and the sensor on the main unit should be approximately 5 meters (16 feet). When this distance decreases, replace the batteries with new ones.

Using the remote control
The instructions in this manual refer mainly to the buttons on the main unit. Buttons on the remote control with the same names as those on the main unit can be used as well.

To use FUNCTION on the remote control
The **FUNCTION** substitutes for the function buttons (**TAPE, TUNER, VIDEO/AUX, CD, MD**) on the main unit.
Each time **FUNCTION** is pressed while power is on, the next function is selected cyclically.

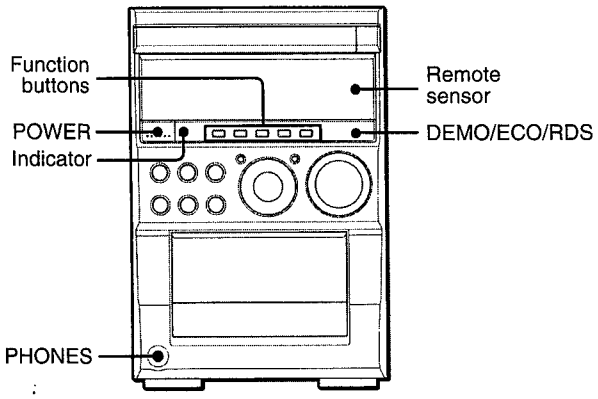
► PLAY on the remote control
The function is the same as that of ◄► on the main unit.



NOTE

- If the remote control is not going to be used for an extended period of time, remove the batteries to prevent possible electrolyte leakage.
- The remote control may not operate correctly when:
  - The line of sight between the remote control and the remote sensor above **DEMO/ECO/RDS** is exposed to intense light, such as direct sunlight
  - Other remote controls are used nearby (those of a television, etc.)

BEFORE OPERATION



To turn the unit on

Press one of the function buttons (**TAPE, TUNER, VIDEO/AUX, CD, MD**). Playback of the inserted disc or tape begins, or the previously tuned station is received (Direct Play Function).
POWER is also available.

To turn the power off

Press **POWER**. When the clock is set, the unit will return to the ECO (Power Economizing) mode or clock display depending on the setting before you turn on the unit.
If the previous setting is Demo, the unit will also return to the clock display.

- If the clock is not set, the unit will always return to the Demo mode.

DEMO (Demonstration) mode

When the AC cord is connected, the display window demonstrates the functions of the unit. When the power is turned on, the DEMO display is overridden by the operation display.

To cancel DEMO mode
Press **DEMO/ECO/RDS**.
To re-activate the DEMO mode, press **DEMO/ECO/RDS** repeatedly until the display window demonstrates the functions of the unit.

To change the brightness of the display

Press **DEMO/ECO/RDS** twice during power on.
The display is dimmer than usual, press **DEMO/ECO/RDS** again to restore normal display.

- The brightness of the display cannot be changed when the selected function is **TUNER**.

Using the headphones

Connect the headphones to **PHONES** jack with a stereo mini plug (ø3.5 mm, 1/8 inch).
No sound is output from the speakers while the headphones are plugged in.

SETTING ECO (POWER ECONOMIZING) MODE

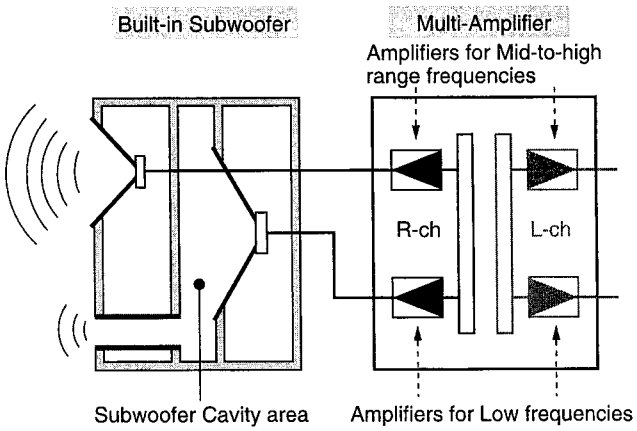
Setting this unit to power economizing mode reduces power consumption.
Press **DEMO/ECO/RDS** repeatedly (during power off) until "ECO MODE" is displayed.
The display disappears and the indicator beside the **POWER** lights up.

4-CHANNEL MULTI-AMPLIFIER SYSTEM

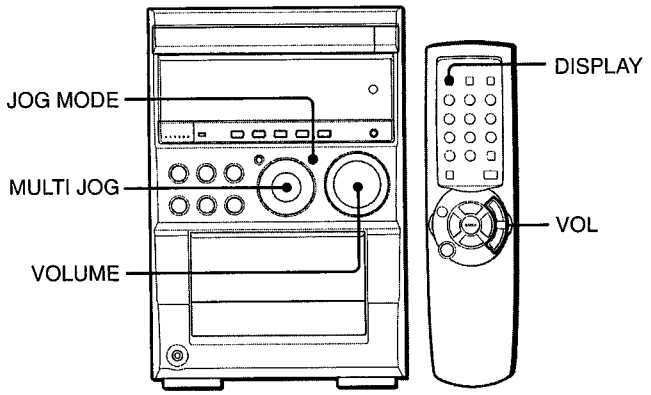
To provide reinforcement for the ultra-low frequencies, in addition to the Left/Right 2-channel amplifier used to reproduce mid-to-high-range frequencies, this system incorporates a second L/R 2-channel amplifier just for reproduction of ultra-low frequencies — making it, in effect, a 4-amplifier system. By utilizing discrete amplifiers for mid to-high-frequencies and low frequencies, high-quality sonic reproduction that is virtually free from distortion can be realized.
This Multi Amplifier System, which utilizes independent circuitry for the different frequency ranges, enables superb sonic reproduction free from distortion.

BUILT-IN SUBWOOFER SYSTEM

The built-in subwoofer system has a separate subwoofer cavity area that is part of the loudspeaker cabinet structure, which acts as a sonic filter to cut distortion components. (In the Multi Amplifier System, the ultra-low frequency signals transmitted from their own independant amplifier are reproduced in this area.)
This separate construction gives a clear, rich definiton to bass reproduction and it can realize clear, well-defined mid-to-high frequency signals.
And AIWA's built-in subwoofer system incorporates a subwoofer capable of powerful, satisfying bass performance with true stereo separation.



AUDIO ADJUSTMENTS



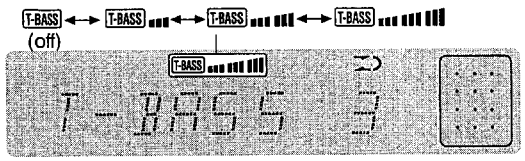
VOLUME

Turn VOLUME on the main unit, or press VOL (∧ or ∨) on the remote control.
The volume level is displayed as a number from 0 to MAX (31).
The volume level is automatically set to 20 when the power is turned off with the volume level set to 21 or more.
To see the current volume level, press **DISPLAY** on the remote control twice.

SUPER T-BASS SYSTEM

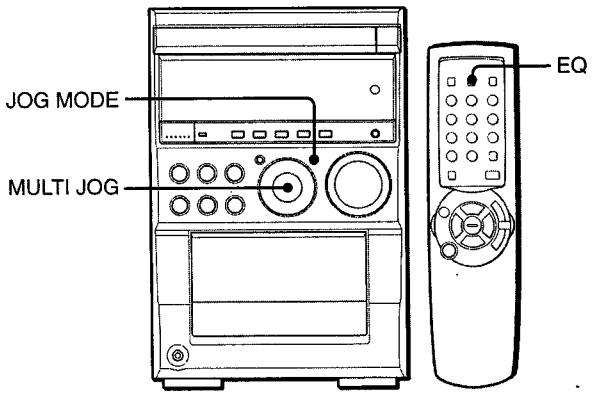
The T-BASS system enhances the realism of low-frequency sound.
Press JOG MODE once, then turn MULTI JOG within 4 seconds to change the T-BASS level.
The level changes as follows. Select one of the three levels or the off position to suit your preference.

T - BASS 0 ⟷ T - BASS 1 ⟷ T - BASS 2 ⟷ T - BASS 3
(off)



NOTE
Low frequency sound may be distorted when the T-BASS system is used for a disc or tape in which low frequency sound is originally emphasized. In this case, cancel the T-BASS system.

GRAPHIC EQUALIZER



This unit provides the following three different equalization curves.
ROCK: Powerful sound emphasizing treble and bass
POP: More presence in the vocals and midrange
JAZZ: Accented lower frequencies for jazz-type music

Press JOG MODE repeatedly until "GEQ" is displayed, then turn MULTI JOG within 3 seconds to select an equalization curve.
The equalization mode is displayed as follows:

GEQ OFF (cancel) ⟷ GEQ ROCK
GEQ JAZZ ⟷ GEQ POP

GEQ

To cancel the selected mode
Press **JOG MODE** repeatedly until "GEQ" is displayed, then turn **MULTI JOG** within 3 seconds until "GEQ OFF" is displayed.

To select with the remote control
Press **EQ** repeatedly until the desired equalization curve is displayed.

GEQ OFF (cancel) ⟷ GEQ ROCK
GEQ JAZZ ⟷ GEQ POP

PRESETTING STATIONS

The unit can store a total of 32 preset stations. (Each band has a maximum of 20 available preset stations.) Presetting allows you to tune in to a station directly. Stations are assigned preset numbers, beginning from 1 in consecutive order for each band (FM, MW, LW).

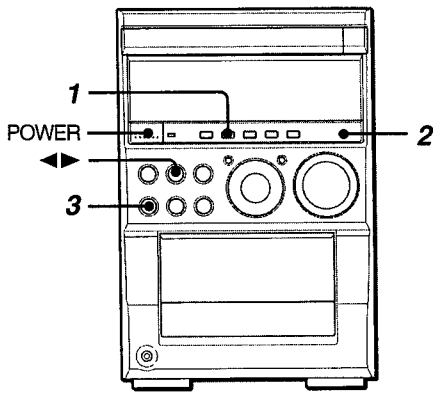
Automatic presetting:
This unit has a function for reception of *1RDS (Radio Data System) and other stations.
FM RDS stations take priority over other FM stations if there are more than 20 receivable stations.

Manual presetting:
You can select stations to be preset from all the bands.

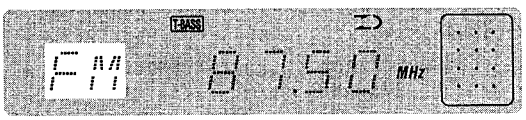
NOTE
DEMO mode and changing the brightness of the display cannot be activated when the selected function is TUNER.

AUTOMATIC PRESETTING

The tuner scans through the receivable frequency range and stores stations automatically.



1 Press TUNER/BAND until FM is displayed.



2 Keep DEMO/ECO/RDS pressed for 4 seconds until AUTO PRESET scrolls on the display.

3 Press ▮▮ within 4 seconds.
The tuner searches for a station, beginning with the FM band. When a tuned station is stored, the selected preset number flashes on the display.

The search continues on the MW and LW bands if preset numbers are still available.
When automatic presetting has been completed, the display returns to the first preset station.

When the tuner detects *2identical RDS stations with alternative frequencies
Only the station with the stronger signal is stored.
Before storing an RDS station, the tuner checks first whether the same stations on the other frequencies are present, and stores the station with the best reception.

NOTE
When automatic presetting is done, all previously stored stations are cleared.

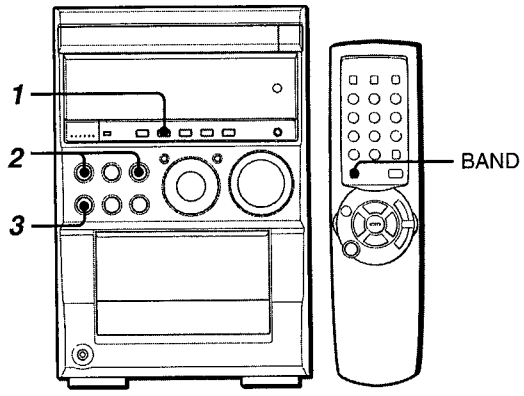
***1RDS**
Today many stations transmit so-called RDS (Radio Data System) codes that contain a variety of additional information along with the regular sound signals.

***2Identical RDS stations with alternative frequencies (AF)**
This is a list of alternative frequencies that gives information on the various transmitters broadcasting the same program in the same reception area. It enables receivers equipped with memory to store the list, to reduce the time needed for switching to another transmitter.

To change the MW tuning interval
The default setting of the MW tuning interval is 9 kHz/step. If you use the unit in an area where the frequency allocation system is 10 kHz/step, change the tuning interval as follow.
Press **POWER** while pressing **◄► DIR/PRESET** during power on.
To reset the interval, repeat this procedure.

NOTE
When the MW tuning interval is changed, all preset stations are cleared. The preset stations have to be set again.

MANUAL PRESETTING



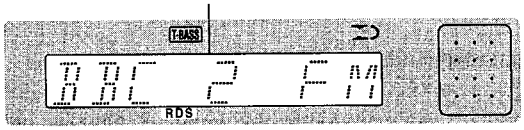
1 Press TUNER/BAND repeatedly to select a band.

FM → MW → LW

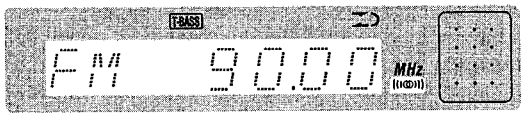
To select a band with the remote control
Press **BAND** repeatedly.

2 Press ◀◀ or ▶▶ to select a station.
Each time the button is pressed, the frequency changes.
ⓐ When tuning in to an FM RDS station
After "TUNE" on the display goes out, the Program Service station name (*3PS) is displayed and RDS lights up.

The Program Service station name (PS)



ⓑ When tuning in to the other stations
After "TUNE" on the display goes out, the band is displayed.



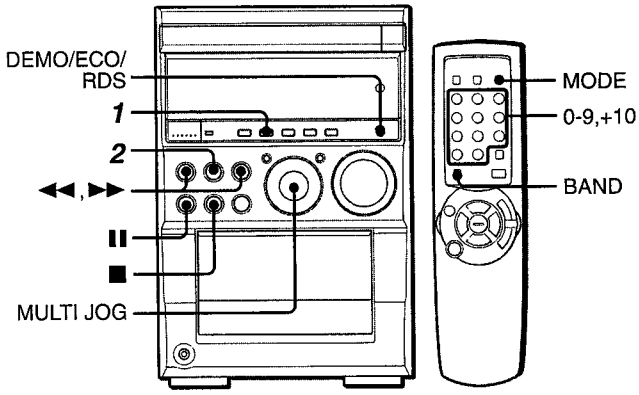
- During FM stereo reception, "((◉))" lights up.

3 Press ❚❚ to store the station.
The selected preset number flashes.

4 Repeat steps 1 to 3 to store the stations.
The next station will not be stored if a total of 32 preset stations for all the bands or a total of 20 preset stations for one band have already been stored.

To search for a station quickly with ◀◀ or ▶▶ (Auto Search)
Keep one of the buttons pressed until the tuner starts searching for a station. The search stops when the tuner tunes in to a station.
To stop the Auto Search manually, press one of the buttons.
- The Auto Search may not stop at stations with very weak signals.

RECEPTION BY PRESET NUMBER



1 Press TUNER/BAND to select a band.

2 Press ◀▶ DIR/PRESET repeatedly.
Each time the button is pressed, the next higher number is selected.
- **MULTI JOG** is also available instead of **◀▶ DIR/PRESET**.

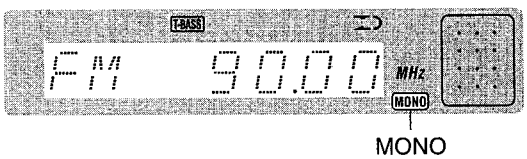
Selecting a preset number on the remote control
Press **BAND** to select a band. Then, press the numbered buttons to select a preset number.
Example:
To select preset number 20, press **+10**, **+10** and **0**.
To select preset number 15, press **+10** and **5**.

To clear a preset station
Select the preset number of the station to be cleared. Then, press ■, and press ❚❚ within 4 seconds.
The preset numbers of all stations in the band with higher numbers are also decreased by one.

To tune in to a station which is not preset
Press **TUNER/BAND** to select a band, and press ◀◀ or ▶▶ to select the station.

To play a tuned station when the power is off (Direct Play Function)
Press **TUNER/BAND**. The power is turned on and the tuned station is played.

When an FM stereo broadcast contains noise
Press **MODE** on the remote control to display "MONO".



MONO

Noise is reduced, although reception is monaural.
To restore stereo reception, press the button again so that "MONO" indicator goes out.

En

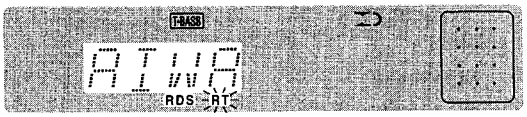
NOTE

RDS functions may not work correctly if RDS transmission data from the station contains too much interference or the reception signal is too weak.

To display radio text (*4RT) during RDS reception

When the tuned station is transmitting RT codes, RT lights up. In this time, press **DEMO/ECO/RDS** three times. RT flashes and text scrolls on the display.

To return to the normal display, press **DEMO/ECO/RDS** again.



If the tuned station is not transmitting RT codes, RT will not light up. In this case, "NO RT" is displayed when you press **DEMO/ECO/RDS** three times.

***3Program service station name (PS)**

This is a name consisting of not more than 8 alphanumeric characters, which is displayed in order to inform listeners about the program service being broadcast by the radio station.

Example: BBC 1

Characters which can be displayed

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0 1 2 3 4 5 6 7 8 9 0 < > ? " ' ※ 「 」 − + /

If a character transmitted by the broadcast is not applicable to receivers, a blank space is left instead.

***4Radiotext (RT)**

Information such as the cast list of a play or the title of a song is shown on the display.

***5Program type identification (PTY)**

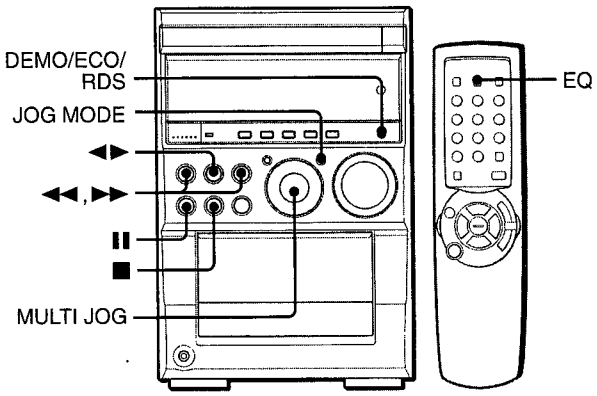
PTY allows selection of listening by one of 15 or more program types rather than by a station.

***6Enhanced other networks information (EON)**

EON information gives the receiver a cross reference to other stations and allows the receiver to switch from the currently tuned station to another RDS station.

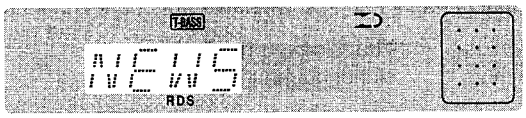
SEARCHING WITH THE HELP OF RDS CODES

Each RDS station identifies the type of program (*5PTY) which it is currently broadcasting. If you specify a PTY, the unit can automatically detect a suitable station from the preset stations. In addition, the *6EON (Enhanced Other Networks) service works in some areas, so that searching is made much faster.



TO DISPLAY THE PTY

Press DEMO/ECO/RDS twice during RDS reception



Programs are classified as follows:

TRAFFIC, NEWS, AFFAIRS (current affairs), INFO (information), SPORT, EDUCATE (education), DRAMA, CULTURE, SCIENCE, VARIED, POP M (pop music), ROCK M (rock music), EASY M (middle of the road music), LIGHT M. (light classical), CLASSICS (serious classical), OTHER M (other music), WEATHER, FINANCE, CHILDREN (children's programmes), SOCIAL (social affairs), RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ (Jazz music), COUNTRY (country music), NATION M (national music), OLDIES (oldies music), FOLK M (folk music) , DOCUMENT (documentary), TEST (alarm text), ALARM

NOTE

- If program type information is not being transmitted, "NO PTY" is displayed.
- If undefined program type information is being transmitted, "UNDEFINE" is displayed.
- The unit identifies TRAFFIC with one of the program types.

TO SEARCH FOR A SPECIFIED PTY

1 **Press DEMO/ECO/RDS twice.**
The program type of the currently tuned station is displayed.

2 **Within 4 seconds, press ◀◀ or ▶▶ to select a program type.**
• **MULTI JOG** is also available instead of ◀◀ and ▶▶.

3 **Within 4 seconds, press ◀▶ DIR/PRESET.**
The search automatically checks every preset stations. After identifying a suitable station, the station will be selected.

When a station is not found
"NOT FOUND" is displayed and the unit returns to the previous station.

When the TRAFFIC program type is selected
The unit searches for a station transmitting a *7TP code. However, the tuned station may not be broadcasting a traffic announcement currently. Wait for a while. The tuned station broadcasts traffic information regularly and a traffic announcement will be made.

EON SEARCH

When EON service works to transmit PTY, a suitable station is detected without checking every preset station. When a station transmits EON information, it takes about 15 to 30 seconds for the unit to decode the EON information. After decoding the information, EON lights up on the display.
With EON search, during FM reception, the unit switches to radio programs with the specified PTY automatically as soon as they begin.

1 **Press DEMO/ECO/RDS twice.**
The program type of the currently tuned station is displayed.

2 **Within 4 seconds, press ◀◀ or ▶▶ to select a program type.**
• **MULTI JOG** is also available instead of ◀◀ and ▶▶.

3 **Within 4 seconds, press ▮▮.**
"EON ON" is displayed for 3 seconds. Then, EON starts flashing and the unit enters EON search standby mode.
When radio program with the specified PTY in another radio station begins, it interrupts the currently playing radio program and the radio program with the specified PTY is heard. At this time, EON flashes rapidly.
At the end of the radio program with the specified PTY, the previous FM radio station is restored.
• When the selected PTY is TRAFFIC, TRAF lights up. When the traffic announcement is received, TRAF is blinking.
• EON search standby mode is stored until it is canceled even if the power is turned off.

To check the selected EON PTY
Press **DEMO/ECO/RDS** twice then press ■ within 4 seconds. The specified PTY and "EON PTY" are displayed alternately.

To restore the previous FM station during reception of the radio program with the specified PTY
Press ◀▶ **DIR/PRESET**. At this time, the EON search standby mode is canceled.
• If ■ is pressed, the previous FM station is not restored although the EON search standby mode is canceled. Instead, it stays tuned to the current FM station.

To cancel EON search standby mode
Press **DEMO/ECO/RDS** twice, the program type of the currently tuned station is displayed, within 4 seconds press ■, "EON PTY" and the specified PTY are displayed alternately. At this time, press ▮▮ within 4 seconds, "EON OFF" is displayed and EON search standby mode is canceled.

NOTE
The EON search function does not work when:
- FM stations are not preset.
- The signals of stations with the specified PTY are weak.

OTHER FUNCTION OF RDS CODES

Auto GEQ function
The equalization curve is switched automatically to match the music program type of an RDS station.
Press **DEMO/ECO/RDS** repeatedly until "A-GEQoFF" is displayed, then turn **MULTI JOG** so that "A-GEQ ON" is displayed.
To cancel, repeat the above operation so that "A-GEQoFF" is displayed.

GEQ matching PTY:

PTY	GEQ
POP M, COUNTRY, NATION M, OLDIES	POP
LIGHT M, CLASSICS, JAZZ, FOLK M	JAZZ
ROCK M	ROCK
Others	off

The selected GEQ can be changed to suit your preference by pressing **EQ** on the remote control or using **JOG MODE** and **MULTI JOG** (as described on page 6). During this time, the Auto GEQ function is canceled.

Clock-time (*8CT)
The CT function provides the unit with information about the local time. The CT function works whenever a CT station is received.

If you have not set the clock (the clock flashes on the display)
The current time can be set automatically by tuning in to an RDS station.
If no RDS station is preset, keep ◀◀ or ▶▶ pressed until RDS lights up.

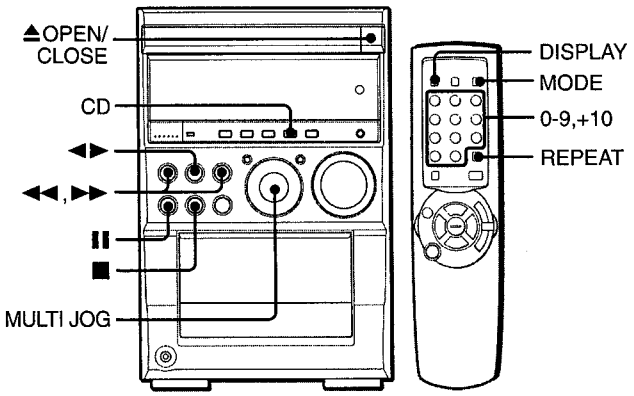
If the clock does not agree with the broadcast time
An RDS signal will update the clock time on the hour every hour.

***7Traffic program identification (TP)**
This is a code which informs the receiver that a tuned station regularly broadcasts traffic information.

***8Clock-time (CT)**
CT function provides an accurate clock signal which is self adjusting to time zones and seasonal time changes.

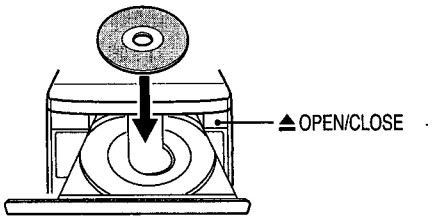
En

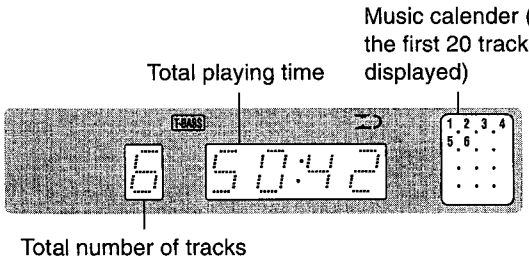
BASIC OPERATIONS



LOADING DISC

Press CD, then press ▲ OPEN/CLOSE to open the disc compartment. Load a disc with the label side up. Close the disc compartment by pressing ▲ OPEN/CLOSE.

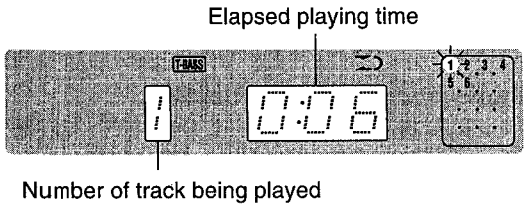




PLAYING DISC

Load a disc.

Press ◀▶.
Play begins with the first track.



To stop play, press ■.
To pause play, press II. To resume play, press again.
To search for a particular point during playback, keep ◀◀ or ▶▶ pressed and release it at the desired point.
To skip to the beginning of a track during playback, press ◀◀ or ▶▶repeatedly or turn **MULTI JOG**.
To remove disc, press ▲ **OPEN/CLOSE**.

To start play when the power is off (Direct Play Function)
Press **CD**. The power is turned on and play of the loaded disc begins.
When ▲ **OPEN/CLOSE** is pressed, the power is also turned on and the disc compartment is opened.

To check the remaining time
During play, press **DISPLAY** on the remote control three times. The amount of time remaining until all tracks finish playing is displayed. To restore the playing time display, press **DISPLAY** again.

Selecting a track with the remote control
Press numbered buttons **0-9** and **+10** to select a track.
Example:
To select the 25th track, press **+10**, **+10** and **5**.
To select the 10th track, press **+10** and **0**.
The selected track starts to play and continues to the end of that disc.

NOTE

- When removing the disc, press ■ to stop play before pressing ▲ **OPEN/CLOSE**.
- When loading an 8-cm (3-inch) disc, put it onto the inner circle of the tray.
- Do not place more than one compact disc on the disc tray.
- Do not tilt the unit with disc loaded. Doing so may cause malfunctions.
- Do not use irregular shape CDs (example: heart-shaped, octagonal ones). It may result in malfunctions.

RANDOM/REPEAT PLAY

RANDOM play
All the tracks on the disc can be played randomly.
Press MODE on the remote control once, "RANDOM" lights up on the display.
To cancel random play, press the button once during play or press the button four times in stop mode.

NOTE

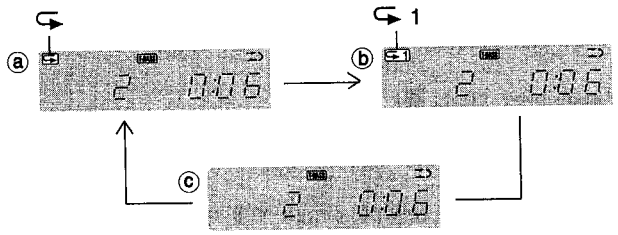
- During random play, it is not possible to skip to the previously played track with ◀◀.
- During random play, direct selection of the tracks with the numbered buttons will cancel random play.
- During random play, "↻1" play cannot be performed and remaining time cannot be checked.

REPEAT play

One or all the tracks can be played repeatedly.
To repeat the entire disc, turn on "↻".
To repeat the desired track, turn on "↻ 1".

Press REPEAT on the remote control.

Each time **REPEAT** is pressed, the operations can be selected cyclically.
ⓐ ↻
ⓑ ↻ 1
ⓒ Cancel

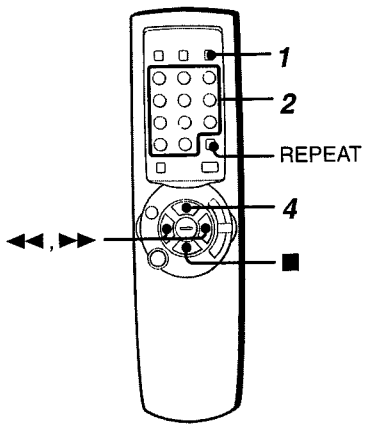


NOTE

- During "↻" play, random play can be performed.
- When you start random play during "↻ 1" play, the repeat play will be canceled.
- To repeat only selected tracks, program the desired tracks (see below) before choosing "↻" function.
- During "↻" play or "↻ 1" play, the remaining time cannot be checked.

PROGRAMMED PLAY

Up to 30 tracks can be programmed from the inserted disc.



Use the remote control.

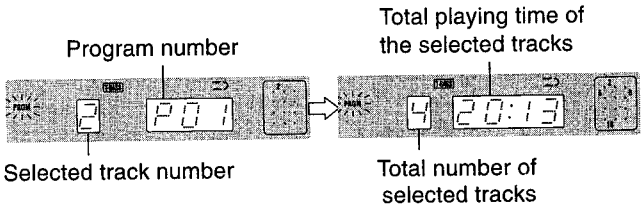
***1* Press MODE repeatedly in stop mode until "PRGM" appears on the display.**

"PRGM" flashes on the display.

PRGM

***2* Press numbered buttons 0-9 and +10 to program a track.**

Example:
To select the 12th track, press **+10** and **2**.
To select the 20th track, press **+10**, **+10** and **0**.



***3* Repeat step 2 to program other tracks.**

***4* Press ► to start play.**

To check the program

Each time ◄◄ or ►► is pressed in stop mode, a track number and program number will be displayed.
• **MULTI JOG** is also available instead of ◄◄ and ►►.

To clear the program

Press ■ in stop mode.

To add tracks to the program

Before playing, repeat step 2. The track will be programmed after the last track.

To change the programmed tracks

Clear the program and repeat all the steps again.

To play the programmed tracks repeatedly

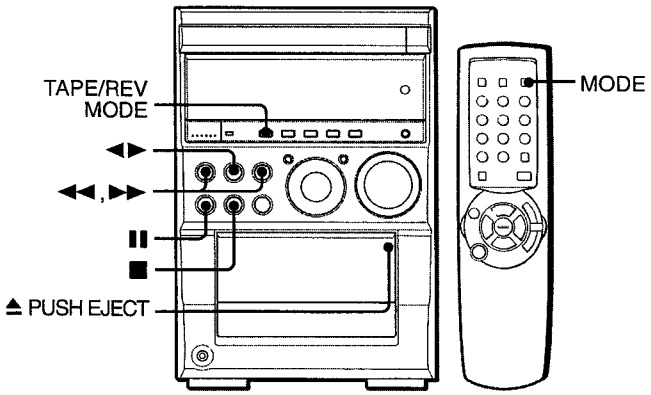
After programming the tracks, press **REPEAT** on the remote control, "↻" lights up on the display.

NOTE

- During programmed play, the following operations cannot be performed:
  – Random play.
  – One-track repeat (↻ 1).
  – Checking the remaining time.
  – Selecting a track.
- If programmed time is more than 99:59 minutes, or the disc track number 31 and above is programmed, total playing time is shown as --:-- in the display.

En

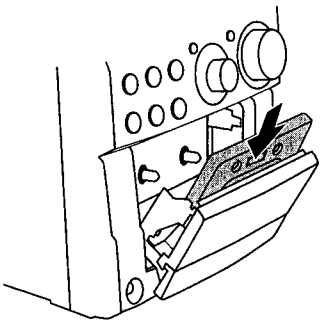
BASIC OPERATIONS



INSERTING A TAPE

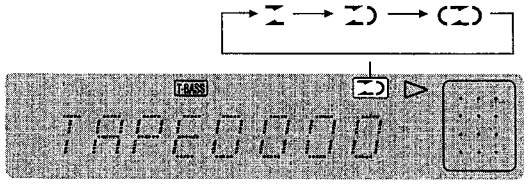
- You can select a reverse mode to playback one or both sides.
- Use Type I (normal), Type II (high/CrO_2) or Type IV (metal) tapes for playback.

Press TAPE/REV MODE and press ≜ PUSH EJECT mark to open the cassette holder



Insert a tape with the exposed side down. Push the cassette holder to close.

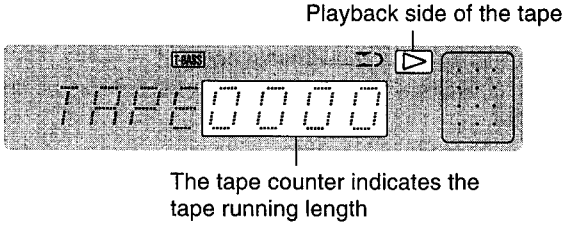
To select a reverse mode
Each time **TAPE/REV MODE** is pressed, the reverse mode changes.
When using the remote control, press **MODE**.



To play one side only, select ⇉.
To play from front side to back side once only, select ⇉).
To play both sides repeatedly, select (⇉).

PLAYING BACK A TAPE

Insert a tape. Then **press ◄► to start play.**



▷ : The front side is being played (forward).
◁ : The back side is being played (reverse).

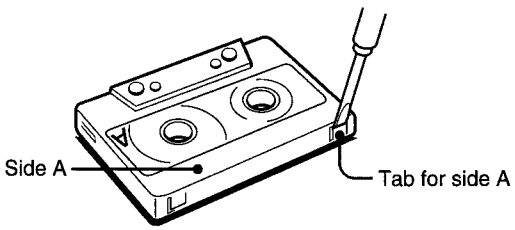
To stop play, press ■.
To pause play, press II. To resume play, press again.
To change the playback side, press ◄► **DIR/PRESET** in play or pause mode.
To fast forward or rewind, press ◄◄ or ►► in stop mode. Then press ■ to stop the tape.

To start play when the power is off (Direct Play Function)
Press **TAPE**. The power is turned on and play of the inserted tape begins.

To set the tape counter to 0000
Press ■ in stop mode.
The counter is also set to 0000 when the cassette holder is opened.

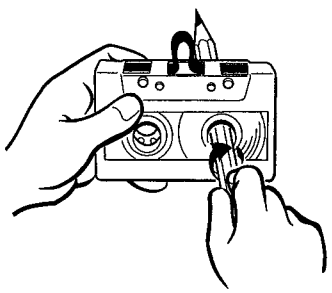
About cassette tapes

- **To prevent accidental erasure,** break off the plastic tabs on the cassette tape after recording with a screwdriver or other pointed tool.



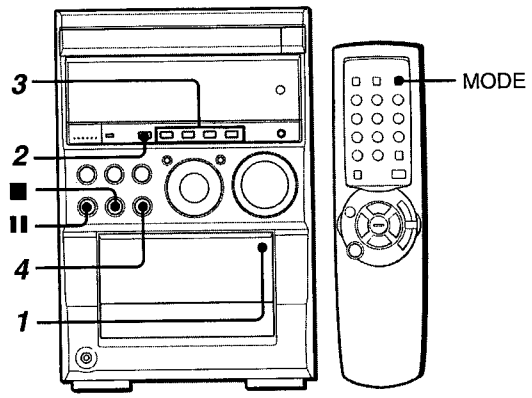
To record on the tape again, cover the tab openings with adhesive tape, etc.

- **120-minute or longer tapes** are extremely thin and easily deformed or damaged. They are not recommended.
- **Take up any slack in** the tape with a pencil or similar tool before use. Slack tape may break or jam in the mechanism.



BASIC RECORDING

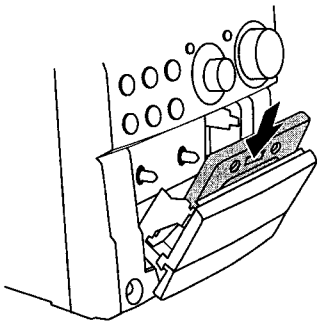
This section explains how to record from the tuner, CD player, or external equipment.



Preparation
- Use Type I (normal) tapes only.
- Set the tape to the point where recording will start.

1 Insert the tape to be recorded on into deck.

Insert the tape with the side to be recorded on first facing out from the unit and the exposed side down.



2 Press TAPE/REV MODE to select the reverse mode.

To record on one side only, select ⇉.
To record on both sides, select ⇉ or (⇉).
When using the remote control, press **MODE**.

3 Press function (TUNER, VIDEO/AUX, CD or MD) and prepare the source to be recorded.

To record from a CD, press **CD** and load the disc.
To record from a radio broadcast, press **TUNER/BAND** and tune in to a station.
To record from a connected source, press **VIDEO/AUX** or **MD** and play.

4 Press ●REC/REC MUTE to start recording.

When the selected function is **CD**, playback and recording start simultaneously.

To stop recording, press ■.
To pause recording, press II (applicable when the source is TUNER, VIDEO/AUX or MD). To resume recording, press it again.

Sound adjustment during recording
The output volume and tone of the speakers or headphones may be freely varied without affecting the recording.

INSERTING BLANK SPACE

Insertion of 4-second blank spaces may help you to locate the beginning of the track on other equipments. This unit can add blank spaces only when the source is TUNER, VIDEO/AUX or MD.

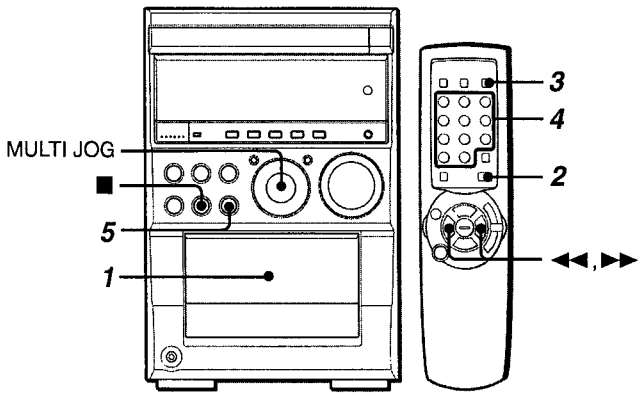
1 **Press ●REC/REC MUTE during recording or while in recording pause mode.**
REC on the display flashes for 4 seconds and the tape runs without recording. After 4 seconds, the deck enters the recording pause mode.
2 **Press II to resume recording.**

To insert a blank space of less than 4 seconds, press **●REC/REC MUTE** again while REC is flashing.
To insert blank spaces of more than 4 seconds, after the deck enters the recording pause mode, press **●REC/REC MUTE** again.
Each time **●REC/REC MUTE** is pressed, a 4-second blank space is added.
**This unit does not have the function to locate the beginning of track.*

NOTE
- Recording cannot be done when **TAPE** function is selected.
- If squealing or beating sounds occur when recording an MW or LW broadcast, press **MODE** on the remote control, so as to elimate the noise.
  Each time the button is pressed, the dot light on the display is turned on and off.

To erase a recording
1 Insert the tape to be erased into the deck.
2 Set the tape to the point where the erasure is to be started.
3 Set the reverse mode by pressing **TAPE/REV MODE**.
4 Press **VIDEO/AUX** and turn the connected equipment off.
5 Press **● REC/REC MUTE** to start the erasure.

AI EDIT RECORDING



The AI edit recording function enables CD recording without worrying about tape length and track length. When a CD is inserted, the unit automatically calculates the total track length. If necessary, the order of tracks is rearranged so that no track is cut short.
(AI: Artificial Intelligence)

NOTE

AI edit recording will not start from a point halfway into the tape. The tape must be recorded from the beginning of either side.

Use the remote control from steps 2 to 4.

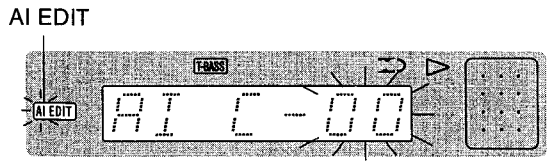
1 Insert the tape into deck.

Insert the tape with the side to be recorded on first facing out from the unit.

2 Press FUNCTION repeatedly until "CD" is displayed and load the disc.

3 Press MODE repeatedly until "AI EDIT" appears on the display.

"EDIT" lights up and "AI" flashes on the display.



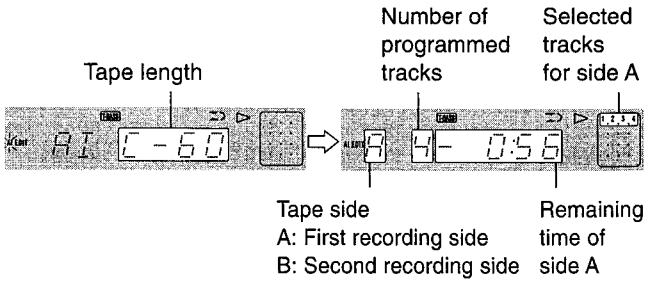
Each time it is pressed, the display changes as follows.

RANDOM ⟶ PRGM ⟶ AI EDIT ⟶ PRGM EDIT

4 Press numbered buttons 0-9 to designate the tape length.

10 to 99 minutes can be specified.
Example: When using a 60-minute tape, press **6** and **0**.
In a few seconds, the tracks to be recorded on each side of the tape are determined.

- ◀◀, ▶▶ or **MULTI JOG** are also available to designate the tape length.



5 Press ● REC/REC MUTE to start recording.

The tape is rewound to the beginning of the front side, the lead segment is played through for 10 seconds, and recording starts. When recording on the front (side A) ends, recording on the back (side B) starts.

To stop recording

Press ■. Recording and CD play stop simultaneously.

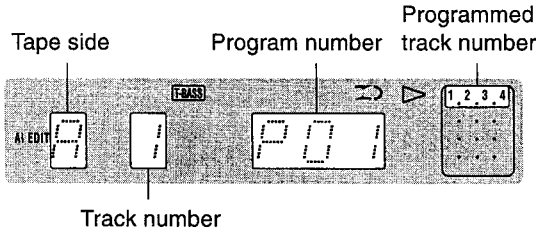
To clear the edit program

Press ■ twice so that "EDIT" disappears on the display.

To check the order of the programmed track numbers

Before recording, press **MODE** on the remote control to select side A or B, and press ◀◀ or ▶▶ repeatedly.

- **MULTI JOG** is also available instead of ◀◀ and ▶▶.



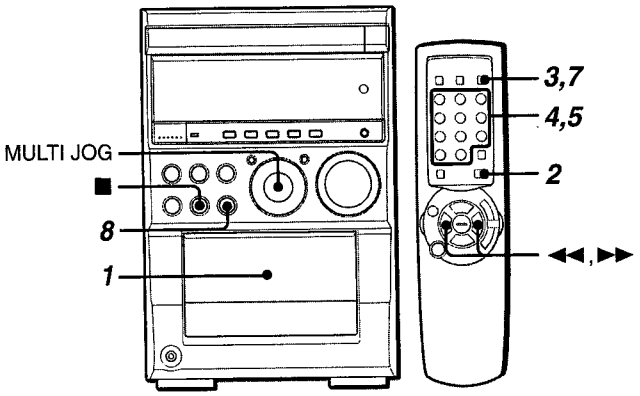
Time on cassette tapes and editing time

The actual cassette recording time is usually a little longer than the specified recording time printed on the label. This unit can program tracks to use the extra time. When the total recording time is a little longer than the tape's specified recording time after editing, the display shows the extra time (without a minus mark), instead of the time remaining on the tape (with the minus mark).

NOTE

- Recording is inhibited if the erasure prevention tab on either side of the tape is broken off.
- The AI edit function cannot be used with discs containing 31 tracks or more.

PROGRAMMED EDIT RECORDING



In the programmed edit recording function, the track can be programmed while checking the remaining time on each side of the tape as the tracks are programmed.

NOTE

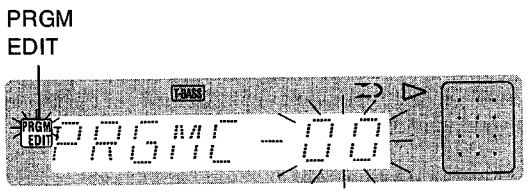
The programmed edit recording will not start from a point halfway in the tape. The tape must be recorded on from the beginning of either side.

Use the remote control from step 2 to 7.

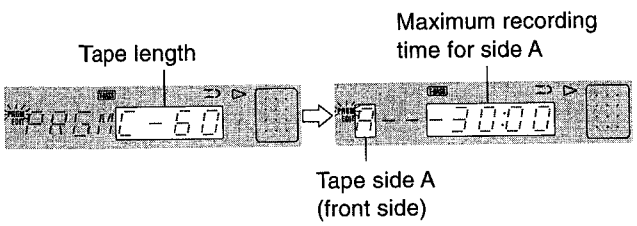
1 Insert the tape into deck.
Insert the tape with the side to be recorded on first facing out from the unit.

2 Press FUNCTION repeatedly until "CD" is displayed and load the disc.

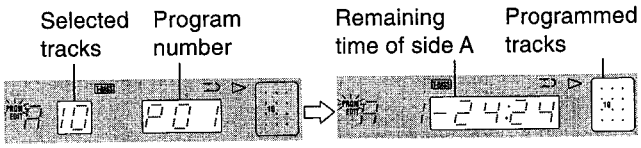
3 Press MODE repeatedly until "PRGM EDIT" appears on the display.
"EDIT" lights up and "PRGM" flashes on the display.



4 Press numbered buttons 0-9 to designate the tape length.
10 to 99 minutes can be specified.
Example: When using a 60-minute tape, press **6** and **0**.
• The ◀◀, ▶▶ or **MULTI JOG** are also available to designate the tape length.

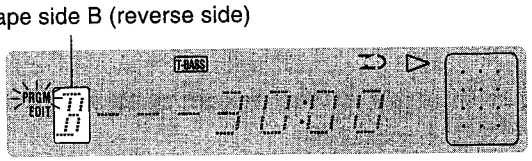


5 Press the numbered buttons 0-9 and +10 to program a track.
Example: To select the 10th track, press **+10** and **0**.



6 Repeat step 5 for the rest of the tracks for side A.
A track whose playing time is longer than the remaining time cannot be programmed.

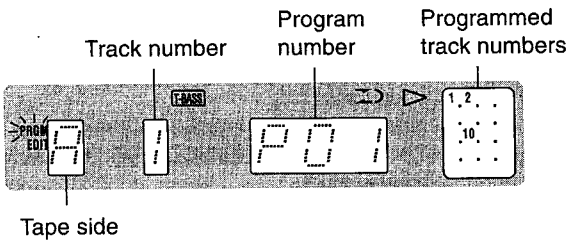
7 Press MODE to select side B and program the tracks for side B.
After confirming "B" on the display, repeat step 5.



8 Press ● REC/REC MUTE to start recording.
The tape is rewound to the beginning of the front side, the lead segment is played through for 10 seconds, and recording starts. When recording on the front (side A) ends, recording on the back (side B) starts.

To stop recording
Press ■. Recording and CD play stop simultaneously.

To check the order of the programmed track numbers
Before recording, press **MODE** on the remote control to select side A or B, and press ◀◀ or ▶▶ repeatedly.
• **MULTI JOG** is also available instead of ◀◀ and ▶▶.



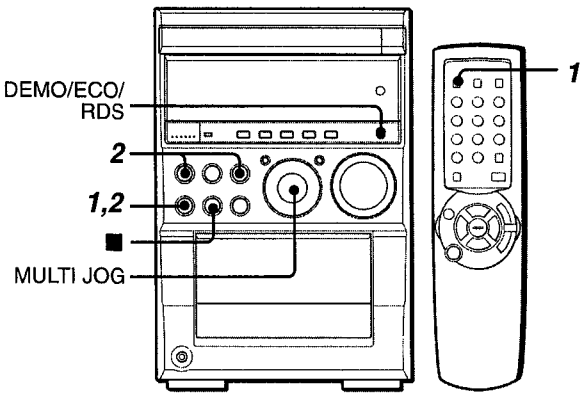
To change the program of each side
Press **MODE** on the remote control to select side A or B, and press ■ to clear the program on the selected side. Then program tracks again.

To clear the edit program
Press ■ twice so that "EDIT" disappears on the display.

NOTE

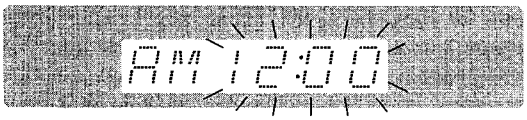
• Recording is inhibited if the erasure prevention tab on either side of the tape is broken off.
• Up to 30 tracks can be programmed from any of the inserted disc.

SETTING THE CLOCK



1 Press DISPLAY on the remote control and press ▮▮ within 4 seconds.

The time flashes.



To set the clock during power off, press ▮▮ repeatedly until the time flashes.

2 Press ◀◀ or ▶▶ to designate the time, then press ▮▮.

Each time ◀◀ or ▶▶ is pressed, the time changes by 1 minute. To change the time by 30 minutes, press and hold ◀◀ or ▶▶.

- **MULTI JOG** is also available instead of ◀◀ and ▶▶.

To display the current time

With power on, press **DISPLAY** once on the remote control. The time is displayed for 4 seconds.
However, the time cannot be displayed during recording.
When the power is off, press **DEMO/ECO/RDS** repeatedly until the display changes to clock.

To switch to the 24-hour standard

With power on, press **DISPLAY** once on the remote control then press ■ within 4 seconds.
Repeat the same procedure to restore the 12-hour standard.

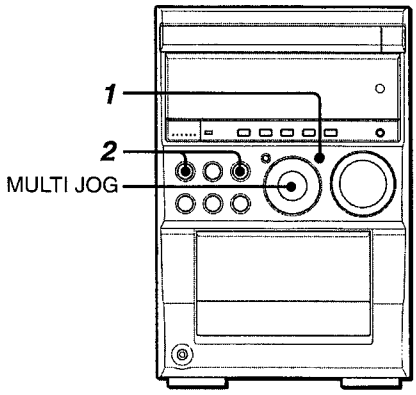
If the clock display flashes

This is caused by a power interruption. The current time needs to be reset.
If power is interrupted for more than approximately 24 hours, all settings stored in memory after purchase need to be reset.

NOTE

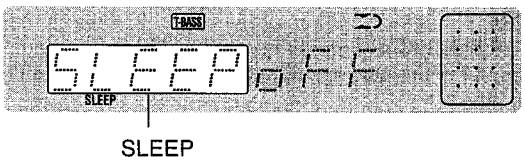
After finish setting the clock, the unit will switch to ECO mode.

SETTING THE SLEEP TIMER



The unit can be turned off automatically at a specified time.

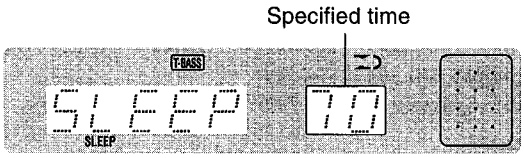
1 Press JOG MODE repeatedly until "SLEEP" is displayed.



2 Within 3 seconds, press ◀◀ or ▶▶ to specify the time until the power is turned off.

The time changes between 5 and 240 minutes in 5-minute steps.

- MULTI JOG is also available instead of ◀◀ and ▶▶.



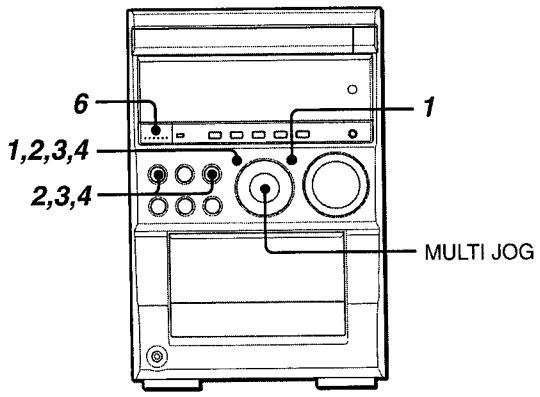
To check the time remaining until the power is turned off

Press **JOG MODE** repeatedly until "SLEEP" is displayed. The remaining time is displayed for 3 seconds.

To cancel the sleep timer

Press **JOG MODE** repeatedly until "SLEEP" is displayed, then turn **MULTI JOG** within 3 seconds so that "SLEEPoFF" appears on the display.

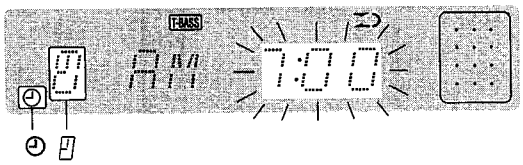
SETTING THE TIMER



The unit can be turned on at a specified time every day with the built-in timer.

Preparation
Make sure the clock is set correctly. (See page 17).

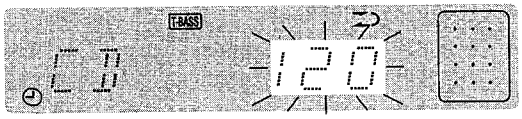
1 **Press JOG MODE repeatedly until "⊡" is displayed, then turn MULTI JOG within 2 seconds until "◴" appears on the display, and press ENTER within 6 seconds.**
The time flashes.



NOTE
If you press **ENTER** after 6 seconds, another operation may start.

2 **Designate the timer-on time by pressing ◀◀ or ▶▶, then press ENTER.**
To change the timer-on time by 30 minutes, press and hold ◀◀ or ▶▶.
• **MULTI JOG** is also available instead of ◀◀ and ▶▶.
After you designate the timer-on time, one of the source names flashes on the display.

3 **Press ◀◀ or ▶▶ to select a source, then press ENTER.**
• If **TUNER** is pressed, the band cannot be selected in this step.
• **MULTI JOG** is also available instead of ◀◀ and ▶▶.
After you select a source, the duration for the timer-activated period flashes on the display.



4 **Select the duration for the timer-activated period with ◀◀ or ▶▶, then press ENTER.**
The duration for the timer-activated period can be set between 5 and 240 minutes in 5-minute steps.
• **MULTI JOG** is also available instead of ◀◀ and ▶▶.

5 **Prepare the source.**
To listen to a CD, load the disc.
To listen to a tape, insert the tape into deck.
To listen to the radio, tune in to a station.

6 **Press POWER to turn the unit off after adjusting the volume and tone.**
When the timer-on time is reached, the unit turns on and begins play with the selected source.
The volume level is automatically set to 20 when the power is turned off with the volume level set to 21 or more.

To check the specified time and source
Press **JOG MODE** repeatedly until "⊡" is displayed. The timer-on time, the selected source name and the duration for the timer-activated period flash alternately for 6 seconds.

To cancel timer standby mode temporarily
Press **JOG MODE** repeatedly until "⊡" is displayed, then turn **MULTI JOG** within 6 seconds until "◴" or "◴ REC" disappears on the display.
To restore the timer standby mode, press **JOG MODE** repeatedly until "⊡" is displayed, then turn **MULTI JOG** within 2 seconds to display "◴" or "◴ REC".

Using the unit while the timer is set
You can use the unit normally after setting the timer.
Before turning off the power, carry out step 5 to prepare the source, and adjust the volume and tone.

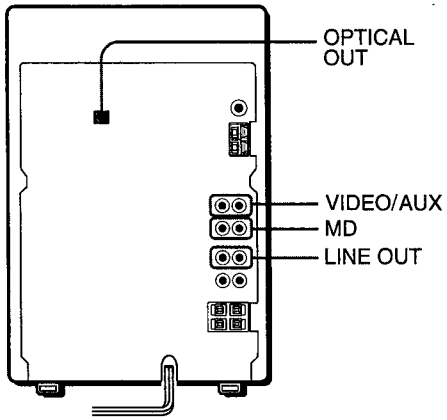
NOTE
• Timer playback and timer recording will not begin unless the power is turned off.
• Connected equipment cannot be turned on and off by the built-in timer of this unit. Use an external timer.

TIMER RECORDING

Timer recording is applicable for TUNER and VIDEO/AUX (with an external timer) sources only.

Press JOG MODE repeatedly until "⊡" is displayed, then turn MULTI JOG within 2 seconds until "◴ REC" appears on the display. Then press ENTER within 6 seconds.
Carry out the steps of "SETTING THE TIMER" from step 2 and insert the tape to be recorded on into deck after step 5.

CONNECTING OPTIONAL EQUIPMENT



Refer to the operating instructions of the connected equipment for details.

- The connecting cords are not supplied. Obtain the necessary connecting cords.
- Consult your local Aiwa dealer for optional equipment.

VIDEO/AUX JACKS

This unit can input analog sound signals through these jacks.
Use a cable with RCA phono plugs to connect audio equipment (turntables, LD players, VCRs, TV, etc.).
Connect the red plug to the **VIDEO/AUX R** jack, and the white plug to the **VIDEO/AUX L** jack.

When connecting a turntable
Use an Aiwa turntable equipped with a built-in equalizer amplifier.

MD JACKS

This jack is recommended to connect with an MD player.
Use a cable with RCA phone plugs.
Connect the red plug to the **MD R** jack, and the white plug to the **MD L** jack.

- When MD player is connected to these jacks, no sound will be output from the **LINE OUT** jack.

LINE OUT JACKS

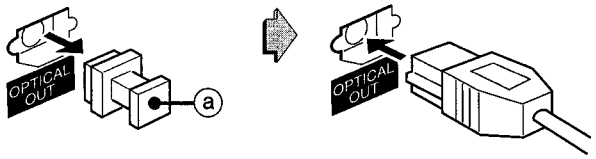
This unit can output analog sound signal through these jacks.
Use a cable with RCA phono plugs to connect audio equipment with **LINE IN** (analog inpit) jacks.
Connect the red plug of a cable to **LINE OUT R** jack, and the white plug to **LINE OUT L** jack.

NOTE

Do not connect an equipment to **LINE OUT** and **VIDEO/AUX** jacks simultaneously. Otherwise, noise is generated and malfunction occurs.

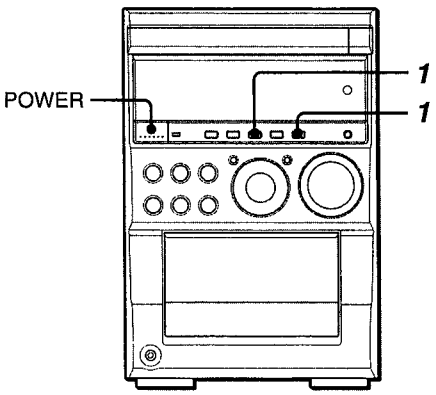
OPTICAL OUT JACK

This unit can output CD digital sound signals through this jack.
Use an optical cable to connect digital audio equipment (digital amplifier, DAT deck, MD recorder, etc.).
Remove the dust cap ⓐ from **OPTICAL OUT** jack. Then, connect an optical cable plug to **OPTICAL OUT** jack.



When the OPTICAL OUT jack is not being used
Attach the supplied dust cap.

LISTENING TO EXTERNAL SOURCES



To play equipment connected to the **VIDEO/AUX** jacks or **MD** jacks, proceed as follows.

1 Press VIDEO/AUX or MD.

To play the equipment connected to VIDEO/AUX jacks, press **VIDEO/AUX**. "AUX" appears on the display.
To play the equipment connected to MD jacks, press **MD**. "MD" appears on the display.

2 Play the connected equipment.

To change a source name in the display
When **VIDEO/AUX** is pressed, "AUX" is displayed initially. It can be changed to "TV" or "VIDEO".
With the power on, press **POWER** while pressing **VIDEO/AUX**. Repeat the procedure to select one of the source names.

CARE AND MAINTENANCE

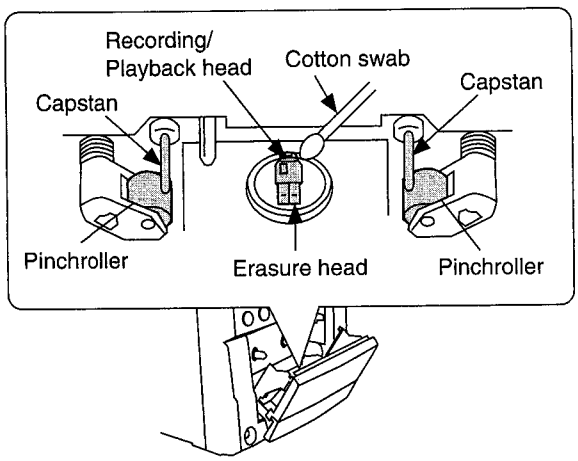
Occasional care and maintenance of the unit and the software are needed to optimize the performance of your unit.

To clean the cabinet

Use a soft and dry cloth.
If the surfaces are extremely dirty, use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents, such as alcohol, benzine or thinner as these could damage the finish of the unit.

To clean the heads and tape paths

After every 10 hours of use, clean the heads and tape paths with a head cleaning cassette or cotton swab moistened with cleaning fluid or denatured alcohol. (These cleaning kits are commercially available.)
When cleaning with a cotton swab, wipe the recording/playback head, erasure head, capstans, and pinchrollers.



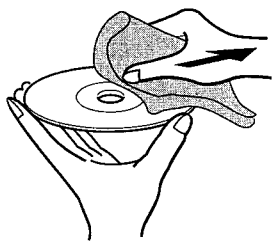
After cleaning the heads and tape paths with a liquid head cleaning cassette or a moistened swab, wait until the cleaned parts are completely dry before inserting the tapes.

To demagnetize the heads

The heads may become magnetized after long-term use. This may narrow the output range of recorded tapes and increase noise. After 20 to 30 hours use, demagnetize the heads with any commercially available demagnetizer.

Care of discs

- When a disc becomes dirty, wipe the disc from the center out with a cleaning cloth.



- After playing a disc, store the disc in its case. Do not leave the disc in places that are hot or humid.

Care of tapes

- Store tapes in their cases after use.
- Do not leave tapes near magnets, motors, television sets, or any source of magnetism. This will downgrade the sound quality and cause noise.
- Do not expose tapes to direct sunlight, or leave them in a car parked in direct sunlight.

TROUBLESHOOTING GUIDE

If the unit fails to perform as described in these Operating Instructions, check the following guide.

GENERAL

There is no sound.
- Is the AC cord connected properly?
- Is there a bad connection? (→ page 3)
- There may be a short circuit in the speaker terminals.
  → Disconnect the AC cord, then correct the speaker connections.
- Was an incorrect function button pressed?

Sound is emitted from one speaker only.
- Is the other speaker disconnected?

An erroneous display or a malfunction occurs.
→ Reset the unit as stated below.

TUNER SECTION

There is constant, wave-like static.
- Is the antenna connected properly? (→ page 3)
- Is the signal weak?
  → Connect an outdoor antenna.

The reception contains noise interferences or the sound is distorted.
- Is the system picking up external noise or multipath distortion?
  → Change the orientation of the antenna.
  → Move the unit away from other electrical appliances.

CASSETTE DECK SECTION

The tape does not run.
- Is deck in pause mode? (→ page 13)

The sound is off-balance or not adequately high.
- Is the playback head dirty? (→ page 20)

Recording is not possible.
- Is the erasure prevention tab on the tape broken off? (→ page 13)
- Is the recording head dirty? (→ page 20)

Erasure is not possible.
- Is the erasure head dirty? (→ page 20)
- Is a metal tape being used?

High frequency sound is not emitted.
- Is the recording/playback head dirty? (→ page 20)

CD PLAYER SECTION

The CD player does not play.
- Is the disc correctly placed? (→ page 11)
- Is the disc dirty? (→ page 20)
- Is the lens affected by condensation?
  → Wait approximately one hour and try again.

To reset

If an unusual condition occurs in the display window or the cassette deck, reset the unit as follows.

1 Press **POWER** to turn off the power.
2 Press **POWER** to turn the power back on while pressing ■.
Everything stored in memory after purchase is canceled.

If the power cannot be turned off in step 1 because of a malfunction, reset by disconnecting the AC cord, and connect it again. Then carry out step 2.

SPECIFICATIONS

Main unit XR-M56/XR-M57

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	16.8 dBf
Antenna terminals	75 ohms (unbalanced)

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

LW tuner section

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 µV/m
Antenna	Loop antenna

Amplifier section

Mid-high frequency amplifier

Power output	Rated: 8 W + 8 W (6 ohms, T.H.D.1%, 1 kHz/DIN 45500) Reference: 10 W + 10 W (6 ohms, T.H.D. 10 %, 1 kHz/DIN 45324)
Total harmonic distortion	0.15 % (5 W, 1 kHz, 6 ohms, DIN AUDIO) DIN MUSIC POWER: 19.5 W + 19.5 W

Low frequency amplifier

Power output	Rated: 20 W + 20 W (6 ohms, T.H.D.1%, 75 Hz/DIN 45500) Reference: 25 W + 25 W (6 ohms, T.H.D. 10 %, 75 Hz/DIN 45324)
Total harmonic distortion	0.15 % (12.5 W, 75 Hz, 6 ohms, DIN AUDIO) DIN MUSIC POWER: 62 W + 62 W
Inputs	VIDEO/AUX: 0.4 V MD: 0.4 V
Outputs	LINE OUT: 150 mV (47 kohms load) SPEAKERS HIGH FREQ: accepts speakers of 6 ohms or more SPEAKERS LOW FREQ: accepts speakers of 6 ohms or more PHONES (stereo minijack): accepts headphones of 32 ohms or more

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	CrO_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	50 dB (CrO_2 tape peak level above 1 kHz)
Recording system	AC bias
Heads	Recording/playback head × 1 Erase head × 1

Compact disc player section

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	75 dB (1 kHz, 0 dB)
Harmonic distortion	0.1 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

General

Power requirements	AC : 230 V, 50 Hz
Power consumption	80 W
Dimensions of main unit (W × H × D)	175 × 259 × 292 mm (7 × 10 1/4 × 11 1/2 in)
Weight of main unit	5.5 kg (12 lbs 2 oz)
Standby power consumption	If the power-economizing mode is on: 1.7 W If the power-economizing mode is off: 11 W

Speaker system

Cabinet type	3 way, built in subwoofer (magnetic shield type)
Speakers	Subwoofer: 130 mm (5 1/8 in) cone type Full range: 100 mm (4 in) cone type Super tweeter: 20 mm (13/16 in) ceramic type
Impedance	6 ohms/6 ohms
Output sound pressure level	86 dB/W/m
Dimensions (W × H × D)	165 × 260 × 265 mm (6 1/2 × 10 1/4 × 10 1/2 in)
Weight	4.1 kg (9 lbs 11 oz)

Specifications and external appearance are subject to change without notice.

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OBSERVERA

Så länge som apparaten är ansluten till nätet flyter en svag ström genom densamma, även då den är avstängd. Om man under en längre tid ej har för avsikt att använda den, drag då ur nätkabeln.

BEMÆRK

Apparatet er stadig forbundet med lysnettet, så længe stikket er tilsluttet til stikkontakten, selv om afbryteren er slået fra. Hvis apparatet ikke bruges i længere tid, skal netledningen trækkes ud.

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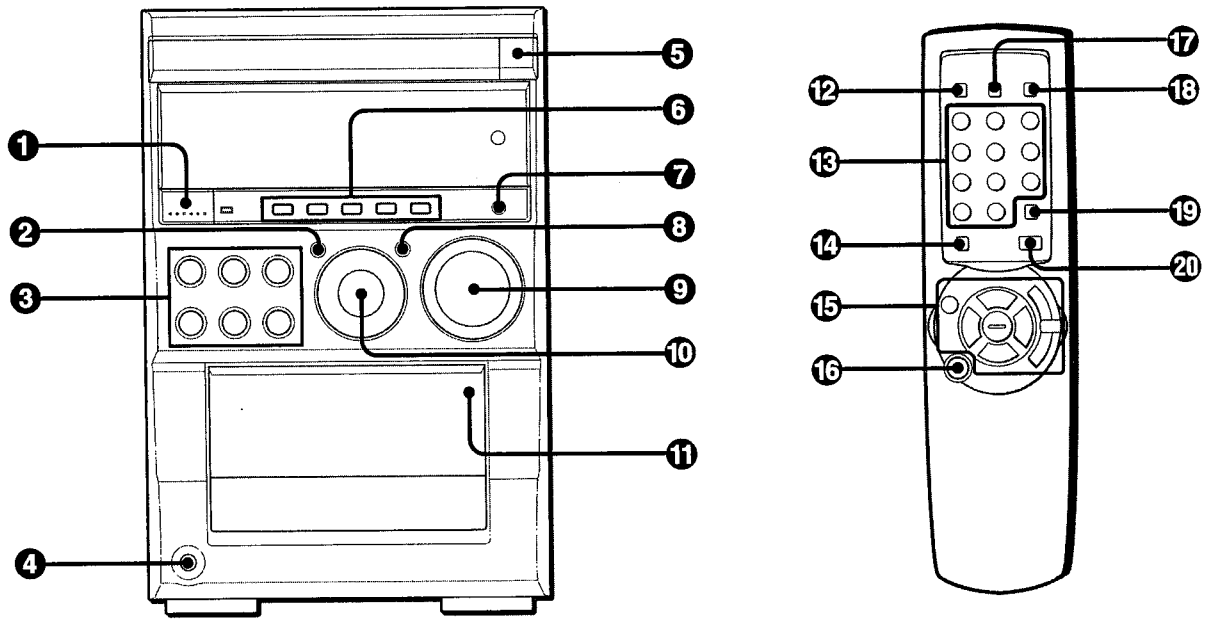

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